

## CLAIMS:

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1. A ceiling mount (20, 30) for an X-ray tube (26) or an X-ray detector (36), containing:
- a) a first guide arrangement (11, 12) that can be fixed to the ceiling (10) of a room;
- 10 b) a carrier system (21, 22, 31, 32) having a length-adjustable arm (23, 33), the carrier system being mounted to the first guide arrangement (11, 12) so that it can slide in a first direction ( $L_S$ ,  $L_D$ );
- c) a transverse arm (24, 34), which is mounted to the end of the arm (23, 33) so as to be rotatable about a first axis of rotation
- 15 ( $R_{1S}$ ,  $R_{1D}$ );
- d) an equipment carrier (25, 35), which is mounted to the end of the transverse arm (24, 34) and which carries the X-ray tube (26) or the X-ray detector (36).
- 20 2. A ceiling mount (20, 30) as claimed in claim 1, characterized in that the equipment carrier (25, 35) at the transverse arm (24, 34) is rotatably mounted about a second axis of rotation ( $R_{2S}$ ,  $R_{2D}$ ).
3. A ceiling mount as claimed in claim 1, characterized in that the carrier
- 25 system comprises:
- b1) a second guide arrangement (21, 31), which is mounted to the first guide arrangement (11, 12) so that it can slide in the first direction ( $L_S$ ,  $L_D$ ), and
- b2) a carriage (22, 32), which is mounted to the said second guide arrangement (21, 31) so that it can slide in a second direction ( $T_S$ ,  $T_D$ ) and which
- 30 carries the arm (23, 33).

4. A ceiling mount as claimed in claim 1, characterized in that the extension axis ( $R_{1S}$ ,  $R_{1D}$ ) of the arm (23, 33) is perpendicular to the first ( $L_S$ ,  $L_D$ ) and, if applicable, also to the second direction ( $T_S$ ,  $T_D$ ).
5. A ceiling mount as claimed in claim 1, characterized in that the first axis of rotation ( $R_{1S}$ ,  $R_{1D}$ ) is parallel to the extension axis of the arm (23, 33).
6. A ceiling mount as claimed in claim 1, characterized in that the second axis of rotation ( $R_{2S}$ ,  $R_{2D}$ ) is parallel to the first axis of rotation ( $R_{1S}$ ,  $R_{1D}$ ).
- 10 7. A ceiling mount as claimed in claim 1, characterized in that the X-ray tube (26) or the X-ray detector (36) is secured to the equipment carrier (25, 35) so as to be rotatable about a third axis of rotation ( $R_{3S}$ ,  $R_{3D}$ ).
- 15 8. An X-ray installation, wherein the X-ray tube (26) and the X-ray detector (36) are each secured to a ceiling mount (20, 30), which contains:
- a) a first guide arrangement (11, 12) that can be fixed to the ceiling (10) of a room;
- b) a carrier system (21, 22, 31, 32) having a length-adjustable arm (23, 33),
- 20 the carrier system being mounted to the first guide arrangement (11, 12) so that it can slide in a first direction ( $L_S$ ,  $L_D$ );
- c) a transverse arm (24, 34), which is mounted to the end of the arm (23, 33) so as to be rotatable about a first axis of rotation ( $R_{1S}$ ,  $R_{1D}$ );
- 25 d) an equipment carrier (25, 35), which is mounted to the end of the transverse arm (24, 34) so as to be rotatable about a second axis of rotation ( $R_{2S}$ ,  $R_{2D}$ ) and which carries the X-ray tube (26) or the X-ray detector (36).
9. An X-ray installation as claimed in claim 8, characterized in that the first
- 30 guide arrangement (11, 12) is the same for both ceiling mounts (20, 30).

10. An X-ray installation as claimed in claim 8, containing a patient table (40) adjustable in height ( $V_T$ ), lengthwise direction ( $L_T$ ), transverse direction ( $T_T$ ), and/or inclination ( $R_T$ ).
- 5 11. An X-ray installation as claimed in claim 8, characterized by a control unit for controlling the spatial adjustment of X-ray tube (26) and X-ray detector (36), making allowances for collision avoidance.